

CLAIMS

1. (CURRENTLY AMENDED) A calibrator for ~~calibrating a fuel pump, liquid-flow meters~~ comprising:

~~at least one or several graduated tank, tanks 2, in stainless steel, mounted on a level-able vehicle~~ the at least one graduated tank having a neck for receiving a filling station fuel pump nozzle and a sloped bottom;

~~a hose-fume recycling circuit 3 beginning on coupled to the top of each neck 9 to recycle the fumes during the filling and also coupled to ending in the a ventilation pipe 16 with the including a removable exhaust pipe 17;~~

~~a level indicator 4 to measure the liquid level in the at least one tank; and~~

~~one or several tanks with a sloped bottom 2, followed by a at least one tank valve 15; coupled to the bottom of the at least one tank;~~

~~a transparent drip reference unit 5 coupled to the at least one tank valve, for allowing a user to view flow of fuel though the transparent drip reference unit; and~~

~~a discharge another valve 14 coupled to the transparent drip reference unit and coupled leading to a common pipe 19 ending with a terminal fast valve 13, the terminal valve for coupling to a discharge hose for discharging measured fuel back into a fuel station storage tank.~~

2. A method of calibrating ~~the liquid flow meter of claim 1,~~ a fuel pump, using a calibrator comprising at least one tank, mounted on a level-able vehicle ~~the at least one graduated tank having a neck for receiving a filling station fuel pump nozzle and a sloped bottom, a fume recycling circuit coupled to the neck to recycle fumes during filling and also coupled to a ventilation pipe including a removable exhaust pipe, a level indicator to measure liquid level in the at least one tank, at least one tank valve coupled to the bottom of the at least one tank, a transparent drip reference unit coupled to the at least one tank valve, for allowing a user to view flow of fuel through the transparent drip reference unit, and a discharge valve coupled to the transparent drip reference unit and coupled to a common pipe ending with a terminal valve, the terminal valve for coupling to a discharge hose for discharging measured fuel back into a fuel station storage tank,~~ the method comprising the steps of:

- a. ~~parking~~ Park the calibrator near the fuel pump,
- b. ~~leveling the calibrator using Use the lever 6a leveler mounted to the calibrator to lift the vehicle wheels off the ground,~~
- c. ~~grounding the Ground the calibrator to the fuel pump 7,~~
- d. ~~inserting a Install the gasoline fuel return hose between the terminal valve piping exit 8 and the gas station's a fuel station underground tank,~~
- e. ~~Open the escape valve 13;~~

~~f.e. filling the at least one graduated tank~~ Fill the tanks 2, one at a time , by inserting the gas
a fuel pump nozzle in the neck 9 of the ~~at least one tank~~, wherein the neck holds seals
the fuel fumes; when it makes contact with the fuel pump nozzle,
g. Adjust the two levels 10 in both axis with the two levers 11,
~~h.f. taking a reading of the fuel level in the at least one calibrated tank after dispensing a~~
measured amount of fuel, as measured by the fuel pump, into the at least one calibrated
tank Take the readings while standing up,
~~h.g. noting~~ Note the readings reading by turning the round a pre-marked recall set-up 12,
~~h.h. opening the at least one tank valve, the discharge valve and the terminal valve~~ Open the
valves 13,14,15 to empty out tanks the at least one tank,
~~h.i. adjusting calibration of the fuel pump~~ Adjust the meters of the pump if need
be required,
~~h.j. closing~~ Close the discharge valve 14 as soon as when the at least one tanks are tank is
empty,
~~h.k. insuring that the at least one tank is~~ Make sure the tanks are truly empty before
closing valve the at least one tank valve 15, by observing the final drops of liquid
dripping down through the transparent drip reference unit 5, and
~~h.l. repeating~~ Proceed with new the calibration test as required.

3. (NEW) A calibration apparatus for calibrating a gas station fuel dispensing pump, the calibration apparatus comprising:

at least one tank having a sealing neck for receiving a filling station fuel pump nozzle and a sloped bottom;

a graduation portion on the neck of the at least one tank, for indicating when a standard quantity of fuel has been inserted into the at least one tank;

a fume recycling circuit coupled to the neck of the at least one tank to recycle fumes during filling;

at least one tank valve coupled to the bottom of the at least one tank;

a transparent drip reference unit coupled to the at least one tank valve, for allowing a user to view flow of fuel through the transparent drip reference unit; and

a discharge valve coupled to the transparent drip reference unit and coupled to a common pipe ending with a terminal valve, the terminal valve for coupling to a discharge hose for discharging measured fuel back into a fuel station storage tank.

4. (NEW) The calibration apparatus of claim 3, wherein the at least one tank is, mounted on a wheeled vehicle so as to be readily moved into position near the fuel dispensing pump, the wheeled vehicle having a locking apparatus for raising wheels of the wheeled vehicle off the ground and a two-axis leveling apparatus to level the calibration apparatus prior to use.

5. (NEW) The calibration apparatus of claim 3, wherein the fume recycling unit further includes a ventilation pipe including a removable exhaust pipe to exhaust fumes after testing is completed.